

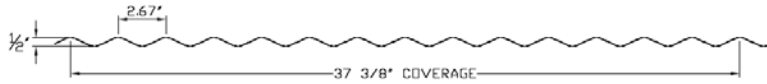


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-200-06

### M-Cor



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
24	80.0	1.10	1.7708	0.0096	0.0334	1.2021	0.0096	0.0334	1.2021

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V<sub>a</sub> is the allowable shear.
3. I<sub>x</sub> is for deflection determination.
4. S<sub>e</sub> is for bending.
5. M<sub>a</sub> is the allowable bending moment.
6. All values are for one foot of panel width.

### Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
Single	Positive Wind	356	200	128	89	65	50	39	32	26	22	18	16	14	12	11	9
	Negative Wind	356	200	128	89	65	50	39	32	26	22	18	16	14	12	11	9
	Live	356	200	128	89	65	50	39	32	26	22	18	16	14	12	11	9
	Deflection (L/180)	248	104	53	31	19	13	9	6	5	3	3	2	1	1	1	1
	Deflection (L/240)	186	78	40	23	14	9	6	5	3	2	2	1	1	1	1	0
2 Span	Positive Wind	350	198	127	88	65	49	39	32	26	22	18	16	14	12	11	9
	Negative Wind	350	198	127	88	65	49	39	32	26	22	18	16	14	12	11	9
	Live	350	198	127	88	65	49	39	32	26	22	18	16	14	12	11	9
	Deflection (L/180)	598	252	129	74	47	31	22	16	12	9	7	5	4	3	3	2
	Deflection (L/240)	449	189	97	56	35	23	16	12	9	7	5	4	3	2	2	2
3 Span	Positive Wind	434	246	158	110	81	62	49	39	33	27	23	20	17	15	13	12
	Negative Wind	434	246	158	110	81	62	49	39	33	27	23	20	17	15	13	12
	Live	434	246	158	110	81	62	49	39	33	27	23	20	17	15	13	12
	Deflection (L/180)	469	197	101	58	36	24	17	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	351	148	76	43	27	18	13	9	7	5	4	3	2	2	1	1
4 Span	Positive Wind	406	230	148	103	76	58	46	37	30	25	22	19	16	14	12	11
	Negative Wind	406	230	148	103	76	58	46	37	30	25	22	19	16	14	12	11
	Live	406	230	148	103	76	58	46	37	30	25	22	19	16	14	12	11
	Deflection (L/180)	498	210	107	62	39	26	18	13	10	7	6	4	3	3	2	2
	Deflection (L/240)	373	157	80	46	29	19	13	10	7	5	4	3	2	2	2	1

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Web crippling has not been checked for this panel.

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